

工程与应用

并行遗传算法下的农业业务外包伙伴选择

冯国壁, 赵庆祯

山东师范大学 管理与经济学院, 济南 250014

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摘要 供应链管理环境下的业务外包模式为企业建立和提高自身的竞争优势提供了一种新的途径。其中, 合作伙伴的选择是业务外包成功与否的关键因素。分析了农业产品加工业业务外包合作伙伴选择问题, 给出了伙伴选择的多目标模型, 提出了用一种自适应并行遗传算法来解决伙伴选择的问题, 在增强和保持种群多样性的同时, 表现出了较好的搜索性能。

关键词 [农产品加工业](#) [业务外包](#) [伙伴选择](#) [自适应并行遗传算法](#)

分类号

Outsourcing partner selection of agricultural products manufacturing based on parallel genetic algorithm

FENG Guo-bi,ZHAO Qing-zhen

Department of Management and Economic, Shandong Normal University, Jinan 250014, China

Abstract

Outsourcing pattern under the environment of supply chain management provides a new way for enterprise who build and enhance themselves competitive superiority. In this pattern, cooperation partner selection is the key factor that whether business outsourcing success or not. This paper analyzes supply chain cooperation partner selection problem of agricultural products manufacturing, provides multi-goal model supporting partner selection, and proposes a adaptive parallel genetic algorithm for solving this partner selection problem, which not only strengthen and preserve the diversity of population, but also express an effective global search capacity.

Key words [agricultural manufacturing](#) [outsourcing](#) [partner selection](#) [adaptive parallel genetic algorithm](#)

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通讯作者 冯国壁 fgb8993@163.com

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